

6A4

RCA-6A4

POWER AMPLIFIER PENTODE

This type is also known as "LA"

Filament	Coated	
Voltage	6.3	a-c or d-c volts
Current	0.3	amp.
Maximum Overall Length		4-11/16"
Maximum Diameter		1-13/16"
Bulb		ST-14
Base		Medium 5-Pin

Pin 1-Filament+
Pin 2-Plate
Pin 3-Grid
Pin 4-Screen
Pin 5-Filament-

BOTTOM VIEW

AMPLIFIER (Class A)

Operating Conditions and Characteristics:

Filament	6.3	6.3	6.3	6.3	d-c volts
Plate	100	135	165	180 max.	volts
Screen	100	135	165	180 max.	volts
Grid*	-6.5	-9	-11	-12	volts
Amp. Fact. (approx.)	100	100	100	100	
Plate Res.	83250	52600	48000	45500	approx. ohms
Mut. Cond.	1200	1900	2100	2200	µmhos
Plate Cur.	9	14	20	22	ma.
Screen Cur.	1.6	2.5	3.5	3.9	ma.
Load Res.	11000	9500	8000	8000	ohms
Self-Bias Res.□	615	545	470	465	ohms
P.O.°	0.31	0.7	1.2	1.4	watts

° 9% total harmonic distortion.

If a single 6A4 is operated self-biased, the self-biasing resistor should be shunted by a suitable filter network to avoid degenerative effects at low audio frequencies. The use of two 6A4's in push-pull eliminates the necessity for shunting the resistor.

□ For a push-pull stage with two 6A4's, the self-biasing resistor is one-half of the value for single tube operation.

Transformer or impedance input-coupling devices are recommended. If resistance coupling is employed, the grid resistor should not exceed 0.5 megohm.

* Grid volts measured from negative end of d-c operated filament. If the filament is a-c operated, the tabulated values of grid bias should each be increased by 4.0 volts and be referred to the mid-point of the filament.

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Cunningham Radiotron

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AVERAGE PLATE CHARACTERISTICS

Ef = 6.3 VOLTS D.C.

SCREEN VOLTS = 180

Ec1 = -16

-20

-24

-12

-8

-4

LOAD RESISTANCE = 8000 OHMS

CONTROL GRID VOLTS = 0

PLATE VOLTS

300

200

100

PLATE MILLIAMPERES

50 40 30 20 10 0

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RCA RADIOTRON DIVISION
RCA MANUFACTURING COMPANY, INC.

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